

## ABSTRACT

The present invention relates to a labeled complex, a process for producing same and a process for utilizing same. The objects are to enable  
5 more than thousands or tens of thousands of orders of various micro particles to be discriminated as polymolecule markings in combinatorial chemistry with high sensitivity, high accuracy, consistentency, clarity, and also to satisfy each of: improvement of capture capability of targets, improvement of discrimination sensitivity, and increase of the number that can be discriminated at the same  
10 time.

The present invention comprises a micro particle, a large number of target receptors, one end of each of which is bonded with the micro particle, and labeled substances bonded with the other end of each target receptor. The target receptor attaches to or is capable of attaching to one or more than two  
15 types of targets. The configuration of the labeled substances is such that a predetermined type thereof is contained at a predetermined molar ratio, and is distributed to all target receptors bonded with the carrier.